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**SUSTAINING ASSOCIATES**

One of the privileges accorded to Sustaining Associates of the Entomological Society of America is as follows: "Sustaining Associates shall be listed in the program of the annual meeting, in one issue each year of the *ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA* and one issue each year of the *JOURNAL OF ECONOMIC ENTOMOLOGY*. Furthermore, all-new Associates shall be listed in the *BULLETIN OF THE ENTOMOLOGICAL SOCIETY OF AMERICA* and a complete list of Associates shall accompany each full list of members that is published." That complete list will be found in this *BULLETIN* and we hope it will be a source of reference to our members and readers.

**AUTOGRAPHA O O**

**MEMBERSHIP LIST.** The By-Laws of the Entomological Society of America provide that the *BULLETIN* shall contain, along with other material, "—, lists of members, —" By Governing Board action such a list is published in the December issue of odd numbered years. The new list is here presented with addresses of record as of November 1, 1961. We hope it will be of value and of interest to you. The *BULLETIN* goes to all 4,550 members, to our 32 Sustaining Associates and to about 100 subscribing institutions and libraries. And the distribution is world wide. With such wide dissemination, it is unavoidable and not surprising that occasionally the list is used for sucker mail. Fortunately file 13 is always available.

**ELECTION RESULTS.** The nearly 2,200 ballots received in the run-off election for President-elect were canvased on November 7, 1961 by the *Ballots Counting Committee* of L. G. Davis, J. R. Foster and M. D. Leonard. In Pimlico patois, it was a "photo finish" with E. A. Steinhause being declared elected. He will serve as President-elect in 1962, as President in 1963, and as Past President in 1964. He, as well as R. C. Bushland and D. M. De Long, can well be proud of the interest and enthusiasm that was shown by the membership in this election.

**GREETINGS.** In the annals of the ancients and on the tables of Las Vegas, seven is a number of fortune. This issue completes the seventh volume of the *BULLETIN* and these lines are the seventh Holiday Greetings from the Executive Secretary and Staff. To each member and reader, the Season's Best and a bright New Year.

**THE MEMORIAL LECTURE**

The Memorial Lecture was established in 1957 to provide an outstanding contribution to the annual meeting of the Entomological Society of America and thus to honor the memory of the founders of entomological science in North America. The Lecture has indeed become a high point of interest and value at our annual meetings through the excellence of the scientific content and perspectives afforded by the Memorial Lecturers to date.

The *Committee on Memorial Lectures* was established as a standing committee of the Society in 1959 with the main task of selecting the annual Lecturer. Selections are based primarily on the nominee's pre-eminence in the development of a significant area of entomology and his ability to communicate his learning vividly. It follows that he is a recognized authority in his specialty. The emphasis is therefore on the man himself, but secondary consideration may be given to his field of specialization to ensure that in the course of time the main branches of entomology are covered. Lecturers are given complete freedom to choose the subject on which they will deliver their address. The selected must be a Society member. The Memorial Lecture is supported by the Biofern Corporation, a Sustaining Associate of the Society, which awards an honorarium of \$500 to the Lecturer.

Society members are invited to submit nominations for the 1962 Lecturer to the Chairman of the *Committee on Memorial Lectures*, addressing him in care of the Society's headquarters at College Park, Maryland.

**NECROLOGY**

- BALLOU, CHARLES H. 71. Retired 34-year member. Emeritus member. In San Jose, Costa Rica, October 4, 1961.
- BIERNONOFF, G. A. 63. Veteran entomology staff member, Oklahoma State University. At Stillwater Hospital, May 3, 1961.
- DUNCAN, JOSEPH. Canadian economic entomologist. In Kamouraska, Quebec, July 27, 1961.
- FOSKET, EDWIN H. Economic entomologist. In Chico, California. September 20, 1961.
- JOHANNSEN, O. A. 91. Retired Cornell University professor. Charter member of the former Entomological Society of America. Fellow 1914. Honorary member 1939. Past president. In Ithaca, New York, November 7, 1961.
- MILLS, JAMES, JR. 65. Fruit grower and 25-year member. In Enloe Hospital, Chico, California, October 28, 1960.
- MOSLEY, LOWELL D. County agricultural commissioner. In Placerville, California, September 21, 1960.
- STEWART, MORRIS A. 59. Dean, graduate division and professor of entomology, University of California. At his home in Berkeley, October 16, 1961.
- WRIGHT, JOHN M. 44. Economic entomologist, University of Wisconsin. Suddenly near Hayward, Wisconsin, October 27, 1961.
- YOUNG, BASIL J. 83. Retired entomologist. In Carlsbad, California, December 22, 1960.

# Entomological Society of America

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## MEMBERS IN THE NEWS

M. D. LEONARD, teacher, researcher, state, federal and commercial entomologist, retired from the Shell Chemical Company in July 1961. A 51-year member, he attended his first national meeting in 1911.

HENRY HURTIG has been designated head of a new Canadian Department of Agriculture National Committee on Pesticide Use in Agriculture.

GEORGE B. RILEY has been appointed field representative for the central Atlantic states by the Chemagro Corporation of Kansas City, a Sustaining Associate.

E. F. KNIPLING and R. C. BUSHLAND received the John Scott Award for useful inventions. This award is administered by the city of Philadelphia. The award was made at the dinner concluding the Eastern Branch meeting in Baltimore on October 31. This was in recognition of their devising the sterile male technique of insect control.

WILLIAM M. UPHOLT of the U. S. Public Health Service was recently appointed chief of the Research Grants Section of the Office of Resource Development for Environmental Health in Washington, D. C.

ALAN STEFFAN is entomologist and malaria specialist with the Administration for International Development (AID, formerly International Cooperation Administration or I.C.A.) in Indonesia.

F. C. BISHOPP, an Honorary Member, has been appointed to the Lee County Mosquito Control Commission in Florida.

MILTON W. SANDERSON has advised us of a film *How to Collect Insects* released by the Illinois Natural History Survey.

G. S. FRAENKEL of the University of Illinois has been made an Honorary Fellow of the Royal Entomological Society. Of the 25 Honorary Fellows only two others, R. E. SNODGRASS and J. C. BRADLEY, are Americans.

ROGER C. SMITH and W. W. FRANKLIN recently brought together fifty years of unpublished research notes on insects attacking alfalfa in Kansas for an experiment station publication.

CLAY LYLE has accepted a position with the Mutual Security Mission to China. He will spend two years at the National Taiwan University.

C. A. WEIGEL continues his active drive for black fly control along the Potomac. He was chairman of an important conference of representative entomologists and health officials in Washington, D. C., on October 6, 1961.

H. L. HALLER received the Charles F. Spencer Award for Outstanding Achievement in Agriculture. This award is administered by the Kansas City Section of the American Chemical Society.

CARL E. LUDWIG is a guest research professor at the Zoologisches Institute de Universitat Wurtzburg in West Germany during his 1961-62 sabbatical year. ROLLO E. DARBY is Acting Chairman of the Department of Life Sciences at Sacramento State College during Dr. Ludwig's absence.

R. E. SNODGRASS, Honorary Member, was the 1961 recipient of the Leidy Medal. This outstanding award is in recognition of Dr. Snodgrass' long list of major contributions in insect morphology.

T. B. DAVICH is Director of the new U.S.D.A. Boll Weevil Research Laboratory at State College, Mississippi. Staff members include W. H. CROSS, R. T. GAST, J. C. KELLER, F. G. MAXWELL, R. E. McLAUGHLIN, NORMAN MITLIN and W. L. PARROTT.

## NATIONAL SCIENCE FOUNDATION

The Division of Biological and Medical Sciences of the National Science Foundation announces that the next closing date for receipt of basic research proposals in the life sciences is January 15, 1962. Proposals received prior to that date will be reviewed at the spring meeting of the Foundation's advisory panels and disposition will be made approximately four months following the closing date. Proposals received after the January 15, 1962 deadline will be reviewed following the summer closing date of May 15, 1962.

Inquiries should be addressed to the Biological and Medical Sciences Division, National Science Foundation, Washington 25, D. C.

## BRANCH MEETINGS

The Pacific Branch met on June 19-21, 1961, at the Miramar Hotel in Santa Barbara, California. Officers elected were Ray F. Smith, *Chairman*, and S. C. Jones, *Chairman-elect*. H. H. Keifer continues as *Secretary-Treasurer*.

The Eastern Branch met at the Lord Baltimore Hotel in Baltimore, Maryland on October 30-31, 1961. Officers elected were Howard Baker, *Chairman*, C. L. Hovey, *Chairman-elect*; J. Peter Johnson, *Secretary-Treasurer* and E. H. Smith, *Representative on the Governing Board*.

## Next Year's Dates

MIAMI, FLORIDA. Columbus Hotel. December 27-30, 1961. The 1962 annual meeting of the Southeastern Branch of the Entomological Society of America was moved forward and combined with the National meeting. Next meeting 1963. Carroll N. Smith, *Chairman*, 612 West Watson Avenue, Orlando, Florida; John S. Roussel, *Secretary-Treasurer*, Dept. of Entomology, Agricultural Experiment Station, Louisiana State University, Baton Rouge, Louisiana.

OKLAHOMA CITY, OKLAHOMA. Skirvin Hotel. February 12-13, 1962. The annual meeting of the Southwestern Branch, Entomological Society of America. Sherman W. Clark, *Chairman*, Texas Gulf Sulphur Company, Room 1801, 811 Rusk Avenue, Houston 2, Texas; Alan C. Gunter, *Secretary-Treasurer*, Hercules Powder Company, Fidelity Union Life Bldg., Dallas, Texas.

MINNEAPOLIS, MINNESOTA. Radisson Hotel. March 21-23, 1962. The annual meeting of the North Central Branch, Entomological Society of America. L. K. Cutkomp, *Chairman*, Division of Entomology, University Farm, St. Paul 1, Minnesota; Gordon C. Guyer, *Secretary-Treasurer*, Department of Entomology, Michigan State University, East Lansing, Michigan.

SAN MATEO, CALIFORNIA. Villa Hotel, June 25-27, 1962. The annual meeting of the Pacific Branch of the Entomological Society of America. Ray F. Smith, *Chairman*, 112 Agriculture Hall, College of Agriculture, University of California, Berkeley, California; H. H. Keifer, *Secretary-Treasurer*, 1112 Swanston Drive, Sacramento 14, California.

PHILADELPHIA, PENNSYLVANIA. Benjamin Franklin Hotel, November 1-2, 1962. The annual meeting of the Eastern Branch, Entomological Society of America. Howard Baker, *Chairman*, U. S. Dept. of Agriculture, Entomological Research Division, Plant Industry Station, Beltsville, Maryland; J. Peter Johnson, *Secretary-Treasurer*, Box 1106, New Haven 4, Connecticut.

# PESTICIDE REFERENCE STANDARDS

of the

## ENTOMOLOGICAL SOCIETY OF AMERICA

L. H. DAWSEY, *Chairman*

### Committee on Insecticide Reference Standards<sup>1</sup>

The following specifications and other information are provided by the Committee on Insecticide Reference Standards of the Entomological Society of America for users of the Standards. These E.S.A. Pesticide Reference Standards are available from the NUTRITIONAL BIOCHEMICALS CORPORATION, 21010 MILES AVENUE, CLEVELAND 28, OHIO at \$1.25 per sample or \$35.00 for a complete set of 31 samples. The net weight of each sample is shown. Trade-marked names are capitalized while common names are not. The use here of the trademarked names is not to be construed as a release for their use as common names. Chemical names used are those established by the American Chemical Society for use in *Chemical Abstracts*. Single hyphens in these names should be used as shown, while double hyphens indicate that the words should be closed up if written consecutively.

**aldrin, technical, ≥ 95%, (Ins.) (100 grams)**

**Purity—**

1,2,3,4,10,10-hexachloro-1,4,4a5,8,8a-hexahydro-1,4-	.....	minimum 60%
endo-exo-5,8-dimethanonaphthalene	.....	maximum 40%
other related compounds	.....	unreacted hexachlorocyclopentadiene 0.73%

(Total chlorine by analysis.....65.3%)

**Physical properties—**

Viscous light amber liquid. Density (15°/15° C.) 1.660.

**Shipping and storage—**

Nonavailable. Stable and non-corrosive in glass containers.

**chlorbenzide, 90% (Acar.) (100 grams)**

**Purity—**

*p*-chlorobenzyl *p*-chlorophenyl sulfide ..... 90%

**Properties—**

White cryst powder. m. p. 72.5° C. Insol. H<sub>2</sub>O. Sol. aromatic hydrocarbons.

**Shipping and storage—**

**co-ral, 99% (Ins.) (Syst.) (10 grams)**

**Purity—**

*O,O*-diethyl *O*-S-chloro-4-methyl-2-oxo-2*H*-1-benzopyran-7-yl phosphorothioate ..... 99%

**Physical properties—**

Tech. sl. brownish crysts., m.p. 90-92° C. *d*<sub>4</sub><sup>25</sup> + 1.310, low volatility. Insol. H<sub>2</sub>O, sl. sol. petroleum, sol. other org. solvs.

**Shipping and storage—**

ICC poison label not required.

**DDT, technical, 77.2% (Ins.) (100 grams)**

**Purity—**

1,1,1-trichloro-2,2-bis(*p*-chlorophenyl)ethane ..... (*p,p'* isomer) ..... 77.2%  
other isomers of DDT and related compounds ..... 22.8%

**Physical properties—**

Waxy off-white powder. Density (25° C.) 1.556. Setting point 93.2° C.

**Shipping and storage—**

Mailable. Non-corrosive and stable.

**DDT, *p,p'*, 100%, (Ins.) (25 grams)**

**Purity—**

1,1,1-trichloro-2,2-bis(*p*-chlorophenyl) ..... (*p,p'* isomer) ..... 100%

**Physical properties—**

White crystalline powder. Density (25° C.) 1.556. m.p. 108.5° C.

**Shipping and storage—**

Mailable. Non-corrosive and stable.

<sup>1</sup> List No. 2. Revised and enlarged 1961.

**dieldrin**, technical, 85%, (Ins.) (100 grams)

**Purity—**

not less than 85% of 1,2,3,4,10,10-hexachloro-6,7-  
epoxy-1,4,4a-5,6,7,8,8a-octahydro-1,4-*endo-exo*-5,8-  
dimethanonaphthalene ..... 85%  
other related compounds ..... 15%

**Physical properties—**

At 25° C. dry solid buff-colored flakes. Setting point  
95° C. Density approx. 1.75.

**Shipping and storage—**

Nonavailable. Non-corrosive and stable.

**Dipterex**, 99% (Ins.) (10 grams)

**Purity—**

*O,O*-dimethyl 2,2,2-trichloro-1-hydroxyethyl Phos-  
phonate ..... 99+%

**Properties—**

White to pale yel. cryst. powd. M.W. 257, Density  
 $20_4 = 1.73$ , m.p. 83-4° C. b.p. 120° C./0.4 mm. Hg.  
Sol.  $H_2O$ , alcs., and ketones, sl. sol.  $C_6H_6$ , toluene,  
ether, etc. Unstable aq. soln. pH 6. Upon prolong  
standing pH 5 slow decomp., with acid formulation.  
Dec. heating.

**Shipping and storage—**

No ICC label, stable > 1 yr.

**Di-Syston**, 99% (Acar.), (Ins.), (Syst.) (10 grams)

**Purity—**

*O,O*-diethyl S-[2(ethylthio)ethyl] phosphorodithioate ..... 99+%

**Properties—**

Clear water white oily liquid, pure. Tech., yel. oil,  
aromatic odor, b.p. 62° C./0.01 mm. Hg.  $n_{D}^{20} =$   
 $1.5496$ ,  $d_{4}^{20} = 1.144$ . Volatily @ 20° C. =  
0.7 mg./m³. Sl. sol.  $H_2O = 1/40,000$ , sol. oils,  
org. solvs. Stable pH < 8.0

**Shipping and storage—**

Class B, requires ICC label.

**endrin**, Tech. 95% (Ins.) (50 grams)

**Purity—**

1,2,3,4,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-  
octahydro-1,4-*endo-exo*-5,8-dimethanonaphthalene ..... 95%  
other related compounds ..... 5%

**Physical properties—**

At 25° C. a light tan powd. Setting point: rearranges  
>392° C. Density approx. 1.75. Sol.  $C_6H_6$ ,  
acetone, Sl. sol. alcs., paraffins.

**Shipping and storage—**

Nonavailable. Class B poison label. Stable and non-  
corrosive.

**ethion**, Tech., 95% (Acar.) (Ins.) (100 grams)

**Purity—**

*O,O,O'*-tetraethyl-S,S'-methylene bisphos-  
phorodithioate ..... 95% min.

**Properties—**

White to amber liquid of density 1.215 to 1.230 at  
20° C., prac. non-volatile at 25° C. Setting point  
-12° to -15° C. Insol.  $H_2O$ , sol. org. solvs. Un-  
stable above 150° C., hydrolyzes with acids and bases.

**Shipping and storage—**

Class B label not required. Stable room temperatures.

**ethyl hexanediol**, (Rep.) (100 grams)

**Purity—**

2-ethyl-1,3-hexanediol ..... Commercial grade.

**Properties—**

Colorless liquid, b.p. 243° C.,  $d_{20}^{20} = 0.9422$ , visc. =  
323 c.p. @ 20° C., v.p. < 0.01 mm. Hg @ 20° C.  
4.2% sol. in  $H_2O$  @ 20° C. Flowp. = 40° C. Tech.  
dist. 240°-250° C.,  $d = 0.939-943$ .

**Shipping and storage—**

Stable under normal conditions.

**heptachlor**, technical, 72%, (Ins.) (100 grams)

**Purity—**

3a,4,5,6,7,8,8-heptachloro-3a,4,7,7,7a-tetrahydro-4,7-  
methanoindene ..... 72%  
insecticidally active, related compounds ..... 28%

**Physical properties—**

At 25° C. a soft waxy tan solid. m.p. range 46-74° C.  
Density (25° C., solid) 1.65-1.67; (at 71° C., liquid)  
1.59-1.61.

**Shipping and storage—**

Nonavailable. Stable in glass containers.

**heptachlor**, 99+% (Ins.) (10 grams)

**Purity—**

3a,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-  
methanoindene ..... 99%+

**Properties—**

White crysts. m.p. 95°-96° C. Insol.  $H_2O$ , sol. alcohol,  
kerosene, etc. Stable to light, moisture, moderate  
heat.

**Shipping and storage—**

See technical heptachlor.

**lindane**, 100%, (Ins.) (50 grams)

**Purity—**

1,2,3,4,5,6-hexamchlorocyclohexane, gamma  
isomer ..... 100%

**Physical properties—**

Colorless crystals. m.p. 112.9° C. Density 1.85-1.90.

**Shipping and storage—**

Mailable. Stable and non-corrosive.

**methoxychlor**, technical, 89.5%, (Ins.) (50 grams)

**Purity—**

1,1,1-trichloro-2,2-bis(*p*-methoxyphenyl)=  
ethane ..... 89.5%  
other isomers of methoxychlor and related  
compounds ..... 10.5%  
(Total chlorine by analysis ..... 30.18%)

**Physical properties—**

Gray flaky powder. Initial m.p. 77.2° C. Density  
(25° C.) 1.41 0.02% acetone-insoluble.

**Shipping and storage—**

Mailable. Stable and non-corrosive.

**methyl parathion**, technical, 80%, (Ins.) (100 grams)

**Purity—**

*O,O*-dimethyl-*O,p*-nitrophenyl phosphorothioate. 80%  
aromatic petroleum solvent, xylene ..... 20%

**Physical properties—**

Amber liquid, crystallizing out of solution at about  
29° C. Density of pure product (20° C.) 1.358.

**Shipping and storage—**

Nonavailable. Class B poison label. Stable in presence  
of dry solvent.

**nicotine**, 99.9% (Ins.) (10 grams)

**Purity—**

1-3-(1-methyl-2-pyrrolidyl) pyridine ..... 99.9%

**Properties—**

Colorless liquid, b.p. 247° C. m.p. < -80° C.,  $d_{4}^{20}$   
= 1.009,  $n_{D}^{20} = 1.52392$ , v.p. = 0.0425 mm.  
Hg/25° C. Sol.  $H_2O < 60^{\circ}$  C. Miscible alc., eth.,  
most. org. solv.

**Shipping and storage—**

Class B poison. ICC label required.

**ovex**, technical, 94%, (Acar.) (100 grams)

**Purity—**

*p*-chlorophenyl *p*-chlorobenzenesulfonate ..... 94%  
sulfones (as bis-*p*-chlorophenyl sulfone) ..... 6%  
unreacted *p*-chlorophenol ..... maximum 0.2%

**Physical properties—**

White to tan flaky solid. m.p. 81° C.

**Shipping and storage—**

Stable and non-corrosive.

**parathion**, technical, 98.76%, (Ins.) (114 grams, 90 milliliters)

**Purity—**

*O,O*-diethyl-*O-p*-nitrophenyl phosphorothioate..98.76% related reaction products .....1.24%

**Physical properties—**

Amber liquid. m.p. 6° C. Density (25° C.) 1.265.

**Shipping and storage—**

Nonmailable. Class B poison label. Stable, if dry and free from alkali.

**Perthane**, technical, 95%, (Ins.) (50 grams)

**Purity—**

1,1-dichloro-2,2-bis(*p*-ethylphenyl)ethane .....95% related reaction products .....5% (Total chlorine by analysis 25.25 ± 1.25%)

**Physical properties—**

At 30° C. a cream to tan mixture of solid and liquid isomers. m.p. range 40-45° C. Density 1.134-1.142.

**Shipping and storage—**

Stable and non-corrosive.

**Phosdrin**, technical, 60%, (Ins.) (100 grams)

**Purity—**

*alpha* isomer of 2-carbomethoxy-1-methylvinyl dimethyl phosphate .....min. 60% insecticidally active, related compounds....max. 40%

**Physical properties—**

Amber liquid. Density (20° C.) 1.23.

**Shipping and storage—**

Nonmailable. Class B poison label. Stable in dry glass containers.

**Sevin**, 99+% (Ins.) (10 grams)

**Purity—**

1-naphthyl *N*-methylcarbamate .....99+%

**Physical properties—**

At 25° C. white crystalline solid. m.p. 145° C. Density 1.232. Sl. sol. H<sub>2</sub>O, sol. most org. solvents.

**Shipping and storage—**

**Strobane**, technical, 100%, (Ins.) (100 grams)

**Purity—**

Terpene polychlorinates (65% chlorine) .....100%

**Physical properties—**

At 30° C. a viscous, straw-colored liquid. Density (20° C.) 1.60 ± .02.

**Shipping and storage—**

Stable and non-corrosive, if dry.

**Tedion**, 99% (Acar.) (100 grams)

**Purity—**

2,4,4;5-tetrachlorodiphenyl sulfone .....99%

**Properties—**

White to tan crystalline solid. m.p. 144-146° C. Density 1.515. Insol. H<sub>2</sub>O but sol. organic liquids. Non-corrosive, nonflammable, stable in air to 150° C.

**Shipping and storage—**

Does not require Class B poison label.

**Thiodan**, Tech. 96% (Ins.) (Acar.) (100 grams)

**Purity—**

6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide .....96%

**Properties—**

At 25° C. a brownish crystalline solid. Setting point 70° to 100° C. Density 1.745. Insol. H<sub>2</sub>O, moderately sol. most org. solvents. A mixture of two isomers (m.p. 106° C. and m.p. 212° C.) Light stable, but subject to slow hydrolysis.

**Shipping and storage—**

Does not require Class B poison label.

**Toxaphene**, technical, 100%, (Ins.) (100 grams)

**Purity—**

Polychlorinated camphene (67-69% total chlorine content) .....100%

**Physical properties—**

At 30° C. an amber waxy solid. m.p. range 65-90° C. Density 1.65.

**Shipping and storage—**

Mailable. Stable and non-corrosive, if dry.

**Trithion**, 95% (Acar.) (Ins.) (100 grams)

**Purity—**

*O,O*-diethyl *S-p*-chlorophenylthiomethyl phosphorothioate .....95%

**Physical properties—**

Lt. amber liquid of 95% purity.  $d_{20}^{20} = 1.265-1.285$ ,  $n_{D}^{25} = 1.590-1.597$ . Sol. org. solvs., sol. H<sub>2</sub>O to 0.34 p.p.m. @ 20° C. Low vapor pressure.

**Shipping and storage—**

Stable in H<sub>2</sub>O.

Class B poison, requires ICC label.

## SOURCE OF CHEMICALS

Acknowledgment is made to the following firms who furnished the lots of chemicals from which the *Pesticide Reference Standards* were obtained. Those companies shown in capital letters are SUSTAINING ASSOCIATES of the Entomological Society of America.

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(Continued on page 258)

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## GEORGIA ENTOMOLOGICAL SOCIETY

### Minutes of the Twenty-Fifth Annual Meeting

The twenty-fifth annual meeting of the Georgia Entomological Society was held at Jekyll Island, Georgia, March 8-9, 1961, with 71 members in attendance.

The meeting was called to order by President Orlin K. Fletcher. The group was welcomed to Jekyll Island by Col. James D. Gould, of Brunswick, Georgia. Vice-President Wayne W. Wells then introduced Orlin K. Fletcher, who gave his presidential address, "Entomology in the Ancient World."

Secretary-Treasurer, H. H. Tippins, reported a total membership of 165 as of March 6, 1961, and gave the financial report.

William F. Turner reported as Chairman of the Publications Committee.

Bill Johnson reported for the Insect Survey Committee.

Oliver I. Snapp, Historian, reported that a history of

the Society had recently been published in the Georgia Entomologist, Vol. 6, April 1960.

H. O. Lund reported for the P. W. Fattig Entomology Scholarship Fund established at the University of Georgia. As of March 4, 1961, the value of the principal fund stands at \$7,031.84. He thanked all contributors on behalf of the Committee and urged continued support until a capital of \$10,000 can be reached as soon as possible.

New members and guests were introduced by Preston Hunter.

The formal program consisted of 2 invitational and 25 submitted papers.

The following officers were elected by unanimous vote: President, Wayne W. Wells; Vice-President, Elmer W. Beck; Secretary-Treasurer, George H. Kalostian; and Historian, Oliver I. Snapp.

The 1962 meeting will be held at Radium Springs, Georgia.

Respectfully submitted,  
H. H. TIPPINS,  
Secretary-Treasurer

## INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Notice of proposed use of Plenary Powers  
in certain cases (A.(n.s.)49)

In accordance with a decision of the 13th International Congress of Zoology, 1948, public notice is hereby given of the possible use by the International Commission on Zoological Nomenclature of its plenary powers in connection with the following cases, full details of which will be found in *Bulletin of Zoological Nomenclature*, Vol. 18, Part 4 to be published on August 11, 1961.

- (3) Designation of a type-species for *Lygus* Hahn, 1833 (Insecta, Hemiptera). Z.N.(S.) 1062;
- (5) Designation of a type-species for *Myodocha* Latreille, 1807 (Insecta, Hemiptera). Z.N.(S.) 1431;

Any zoologist who wishes to comment on any of the above cases should do so in writing, and in duplicate, as

soon as possible, and in any case before February 11, 1962. Each comment should bear the reference number of the case in question. Comment received early enough will be published in the *Bulletin of Zoological Nomenclature*. Those received too late for publication will, if received before February 11, 1962, be brought to the attention of the Commission at the time of commencement of voting.

All communications on the above subject should be addressed as follows:

The Secretary,

International Commission on Zoological Nomenclature,  
c/o British Museum (Natural History),  
Cromwell Road,  
London, S. W. 7.  
England

W. E. CHINA, Assistant Secretary  
International Commission on Zoological Nomenclature  
July, 1961

## MOSQUITO CONTROL ASSOCIATION MEETINGS

California Mosquito Control Ass'n, January 29-31, 1962, San Mateo, California.

Virginia Mosquito Control Ass'n, February 23, 1962, Norfolk, Virginia.

Texas Mosquito Control Ass'n, joint meeting American Mosquito Control Ass'n, March 5, 6, 7, 1962, Galveston, Texas.

Utah Mosquito Control Ass'n, March 16-17, 1962, Salt Lake City, Utah.

New Jersey Mosquito Extermination Ass'n, March 21, 22, 23, 1962, Atlantic City, N. J.

Illinois Mosquito Control Ass'n, March 30, 31, 1962, East Hazelcrest, Ill.

Florida Anti-Mosquito Ass'n, April, 1962. Write J. A. Mulrennan, P. O. Box 210, Jacksonville, Florida, for exact date and site.

Information compiled by T. G. Raley, Exec. Sec'y., American Mosquito Control Ass'n, P. O. Box 278, Selma, California.

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## P. W. FATTIG COLLECTION GOES TO THE UNIVERSITY OF GEORGIA

The Faculty and Administration of Emory University in Atlanta, Georgia, has turned over the entire P. W. Fattig insect collection to the Department of Entomology at the University of Georgia in Athens, Georgia on an indefinite loan basis.

In his letter of authorization to President O. C. Aderhold, President S. Walter Martin of Emory University states: "The purpose of the transfer is to make this interesting and valuable collection more readily available for research and other use through your Department of Entomology. . . We are glad for this further instance of the spirit of cordial cooperation which exists between Emory University and the University of Georgia."

The collection consists of well over 200,000 specimens, nearly all determined. Most specimens are pinned, but several thousand are carefully papered. Almost all the material was collected in Georgia by Mr. Fattig over a 26-year period from 1927 until his death in 1953. Since this time, the material has been housed at Emory University in 187 Schmitt boxes and nearly 2000 cigar boxes stored in modified fumigant-tight herbarium cases. Dr. W. B. Baker, Chairman of the Museum Committee at Emory University, is to be commended for the excellent care given the collection under his supervision.

At the University of Georgia, the collection is being incorporated into the Entomology Department Collection which is housed in Cornell drawers in the ample museum facilities provided in the new Science Center. The University has provided graduate and undergraduate student assistants to help with the mechanics of incorporation.

In addition to the specimens themselves, all Mr. Fattig's official correspondence, records and separates-library and extra copies of his own publications were also placed in the custody of the Entomology Department of the University.

Mr. Fattig was an enthusiastic and careful collector well-known to many taxonomists over the country for whom he provided specimens. He was the Curator of the Museum at Emory University for 26 years and interested many Georgia boys in the study of insects. He was a charter member and past president of the Georgia

Entomological Society, which, in 1954, sponsored in his honor the "P. W. Fattig Entomology Scholarship Fund" at the University of Georgia. This scholarship is now functioning and provides tuition and fees for one year for an outstanding junior or senior student majoring in entomology at the University of Georgia.

The transfer of this material makes it available for reference and research in the rapidly expanding entomology program at the University of Georgia.

---

## UNIVERSITY OF NIGERIA

The University of Nigeria opened its doors to students in September, 1960. Science courses are scheduled to start in September, 1961. The caliber of the biology courses will be seriously jeopardized unless equipment and library facilities can be developed rapidly. This is an appeal for donations to anyone who has unwanted back numbers of any biological journal that would provide useful reference material for undergraduate students or for research projects. Books also, in any phase of biology, would be useful. Supply manufacturers are also invited to send current catalogs.

Donors should do one of two things:

Ship the material prepaid to:

DR. E. C. MARTIN  
Biological Science Advisor  
University of Nigeria  
Nsukka, Nigeria  
via Government Costal Agent  
Port Harcourt

or

Send the material prepaid or deliver to:

DR. GEORGE AXINN  
University of Nigeria Project  
Michigan State University  
East Lansing, Michigan

---

## ROCKY MOUNTAIN CONFERENCE OF ENTOMOLOGISTS

The thirty-second meeting of the Rocky Mountain Conference of Entomologists was held at Cameron Pass 4-H Camp near Gould, Colorado, on August 6-10, 1961. There were 160 registered at the meeting. There were 57 entomologists and the remainder were friends and relatives who came along to enjoy a few days in the mountains. A total of 17 states and one foreign country were represented.

As is traditional with these meetings, no formal papers were presented. The conference was devoted to informal discussion of 10 central themes with one member acting as chairman.

There were planned programs for the families during the day with a 4-H craft leader in charge. Each evening was devoted to family activities such as movies, stunts, group singing and square dancing. One day of the conference was set aside for collecting insects, hiking, fishing or just enjoying the view.

Officers for 1961 were:

CLIFF WALSTROM, President  
W. DON FRONK, Secretary  
L. E. JENKINS, Treasurer

Officers for 1962 will be:

N. D. WYGANT, President  
W. DON FRONK, Secretary  
L. E. JENKINS, Treasurer

## NEW PUBLICATIONS

**1961 AMERICAN TOMATO YEARBOOK.** John W. Carncross, Editor, New Brunswick, N. J. Published by C. Stedman Macfarland, Jr., 8 Elm Street, Westfield, N. J. 44 pp. Price \$2.00. A complete set, 1951-1961, is available at \$16.00.

Contains much interesting and vital information for all those connected with the tomato industry in any way; e.g., the names, addresses, and projects of leading investigators engaged in various phases of tomato research in all parts of the United States and Canada.

**FORESTRY COLLEGE—ESSAYS ON THE GROWTH AND DEVELOPMENT OF NEW YORK STATE'S COLLEGE OF FORESTRY, 1911-1961.** George R. Armstrong, Editor, Marvin W. Kranz, Associate Editor. Published in Commemoration of The College's Fiftieth Anniversary by the Alumni Association, State University College of Forestry at Syracuse University, Syracuse 10, New York. 1961. viii + 360 pp. illus. Price \$8.30 postpaid.

**PACIFIC INSECTS MONOGRAPHS. 1A,** The Chrysomelidae (Coleopt.) of China and Korea, Part 1, by J. L. Gressitt and S. Kimoto. 299 pp., 77 figs. \$4.00. 2, Problems in the zoogeography of Pacific and Antarctic insects, by J. L. Gressitt (with appendices by T. C. Maa, I. M. Mackerras, S. Nakata and L. W. Quate). 128 pp., 40 figs. (including 2 color plates). \$2.50 bound; \$2.00

unbound. Order from Bishop Museum, Honolulu 17, Hawaii.

The first issue covers 12 of the 17 subfamilies of Chrysomelidae found in China and Korea and treats 691 species with keys to all categories. Sixty-three species are described as new. The second issue is a general discussion of zoogeographic problems with examples from zoogeographic patterns in several groups of insects and illustrations of environment. The MONOGRAPHS for an adjunct series to *Pacific Insects*, a quarterly journal also issued by Bishop Museum. Subscription to the journal is \$5.00 per volume for volumes 1-3, and \$7.00 starting with volume 4 (1962).

**PESTICIDE HANDBOOK,** by D. E. H. Frear. 13th Edition, College Science Publishers, P. O. Box 798, State College, Pennsylvania. 286 pages, 9072 product listings, 1961. Paper \$2.00, cloth \$3.50.

This useful and well known publication appears in March each year. The 1961 edition has about 15% more listings of pesticides than the 1960 volume.

**PESTICIDE INDEX,** by D. E. H. Frear. College Science Publishers, P. O. Box 798, State College, Pennsylvania. 193 pages. Price not stated. Alphabetical listing of some 3,000 names of chemicals used as pesticides, cross indexed to common names where these exist.

## BOOK REVIEWS

**BIOCHEMISTRY OF INSECTS,** by Darcy Gilmour. 1961. 343 pages, Academic Press, New York and London. Price—\$8.50.

As indicated in the title, this is a highly specialized book. I am sure it will prove to be a most useful book for all serious students of advanced entomology. It is also a very readable book.

The author gives his aim for this, the first book in the field, as "a complete coverage of existing knowledge"—a critical synthesis—based on a background of biological and biochemical principles—and indicating profitable lines for future work.

The organization is considered unusual. The book is divided into three sections. Section 1 on Energy Metabolism contains chapters on Nutrition, Digestion, Aerobic Energy Production, Aerobic Energy Production, Energy Conservation and Conversion, and the End Products of Catabolism. Section 2 on Intermediate Metabolism has chapters on Intermediate Metabolism of Carbohydrates, Intermediate Metabolism of Lipids and Intermediate Metabolism of Nitrogen Compounds. Section 3 on Biochemistry of Development consists of one chapter on Hormones and Morphogenesis in Insects. Each chapter is amply documented with references, many to original authors, the total for all chapters being nearly 1,100. The references include a number published in 1959.

The organization is an asset when studying biochemical principles but was somewhat disconcerting when an attempt was made to follow the chemical changes that occurred in any particular organ. The difficulties are increased by inadequacy of the index. Many subjects are covered in the text that are not listed in the index. Other subjects peculiar to a species are listed under the species only rather than being cross indexed under the subject also. For example, digestion of wax is listed under *Galleria* but not under wax or digestion. The terms, pH, acid-base balance, buffers or hydrogen ion

concentration are not listed. The "citric acid cycle" is listed but the common designation of Krebs' cycle is not. Krebs-Henseleit cycle is shown on page 178 and Emden-Meyerhof on 60-62 but neither is listed in the index.

The peculiarities of insects naturally precludes many of the straightforward statements common to mammalian biochemistry since the processes generally must be related to a particular species. This requirement explains the indexing of subjects under species but does not lessen the need for cross indexing for reference purposes. The instability of taxonomic entomology adds to the author's problems as Professor Gilmour points out.

To realize full value from this book because of its specialization, a good foundation in general biochemistry is required. A thorough reading points up the large amount of information the author has included in its 343 pages. In addition to the information it contains, the book will be a valuable source of subjects for graduate theses since every chapter points up areas in which there is a dearth of information.

While the author may not have realized that part of his aim, "a complete coverage of existing knowledge" (and who could expect it), he has left out a lot of misinformation that has appeared in the literature over the years. In controversial areas, he has not hesitated to make interpretations based on his own experience. This adds greatly to the value of the book. While I am sure some errors must have crept in, I did not pick them up.

To summarize, I highly recommend this book both as a text and as an addition to the library of those interested in the subject.

FRANK H. BABERS,  
Chemicals and Plastic Division,  
QM Research and Engineering Command,  
Natick, Massachusetts

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